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WOOKSUNG

Introduction

Introduction

Thank you for purchasing the TelePhoSee WVP-2100 Internet Videophone! The TelePhoSee WVP-2100 connects over the Internet, making cost-free visual communication possible! The TelePhoSee WVP-2100 connects with fixed IP, PPPoE ADSL and DHCP Internet access. The TelePhoSee WVP-2100 is compliant with the H.323/SIP international standard protocol and is compatible with any other videophones using the same protocol. Great for first time users with its simple setup and user-friendly graphics interface. The TelePhoSee WVP-2100 makes communication a totally new experience! The future of visual communication is now at your fingertips. Now you can visually communicate and see your family, friends and business associates no matter where they are. Business conferences are easy. With a videophone you can show graphs, pictures, products and demonstrate features immediately without the time and money cost of travel. With the TelePhoSee Internet Videophone, you'll never need to worry about your phone bill again!

The pages relating to features supported by each of the WVP-2100 versions are indicated by the code on the top of each page of this manual.

■ (Supported), □ (Not Supported)

■	WVP-2100
□	WVP-2100W
■	WVP-2100S

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WOOKSUNG

Important safety instructions

IMPORTANT!
DO NOT OPEN UP THE BASE UNIT

Doing so will render your one (1) year guarantee invalid and will disavow you of any customer service privileges. Only a technician certified by WOOKSUNG should attempt to open up the unit for customer service.

WOOKSUNG ELECTRONICS will not be held responsible for any damage or personal injury due to the misuse of this product.

WOOKSUNG

Important safety instructions

Introduction

When using this videophone, the following basic safety precautions must always be observed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this videophone.
3. Do not open up the base unit. Failure to comply will result in forfeiture of product guarantee rights.
4. Unplug this videophone from wall outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp and soft cloth for cleaning.
5. Do not use this videophone near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
6. Install this videophone securely on a stable surface. Serious damage may result if the unit falls.
7. Do not cover the slots or openings of the videophone, as they are provided for ventilation and protection against overheating. Never place this videophone near a radiator, or in a place where proper ventilation is not provided.
8. Do not place objects on the power cord. Install the videophone where no one can step on the cord.
9. Use only the power source provided with the unit. If you are not sure of the type of the power supply of your home, consult your dealer or local power company.
10. Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
11. Never spill any liquid on the videophone.
12. During thunderstorms, avoid using this videophone. There may be a remote risk of electric shock from lightning.

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Introduction

Important safety instructions

When moving your videophone

Do not grasp the screen when lifting the phone. Grasp the bottom or the sides of the base.
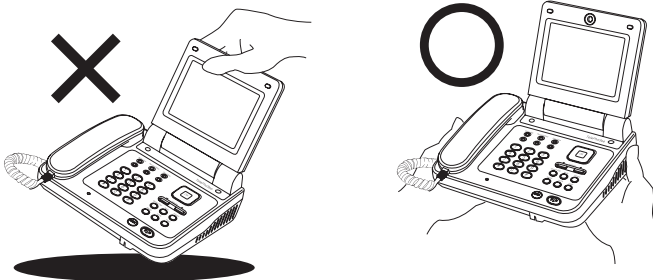
When swiveling the display

The LCD display of the WVP-2100 and WVP-2100W is designed to swivel 175 degrees in each direction. Do not apply excessive force when swiveling as this may damage the unit.
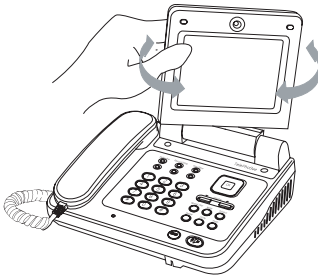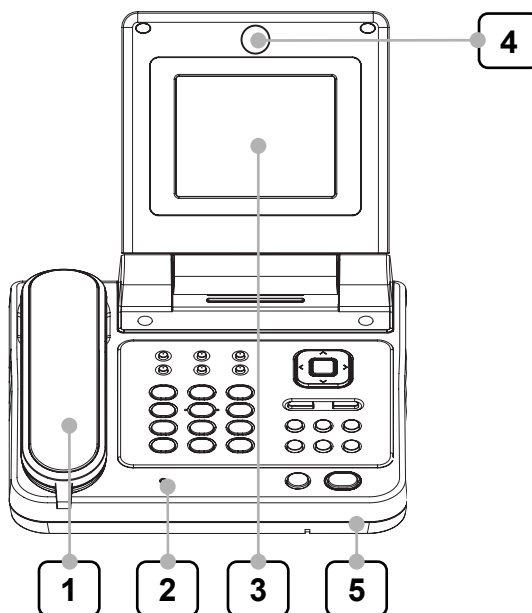
14

Product Features

Front Features (WVP-2100)

Introduction

1	Handset	4	CCD Camera
2	Power Light	5	Speakerphone Microphone
3	TFT Color LCD		

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WOOKSUNG

Introduction

Product Features

Front Features (WVP-2100W)
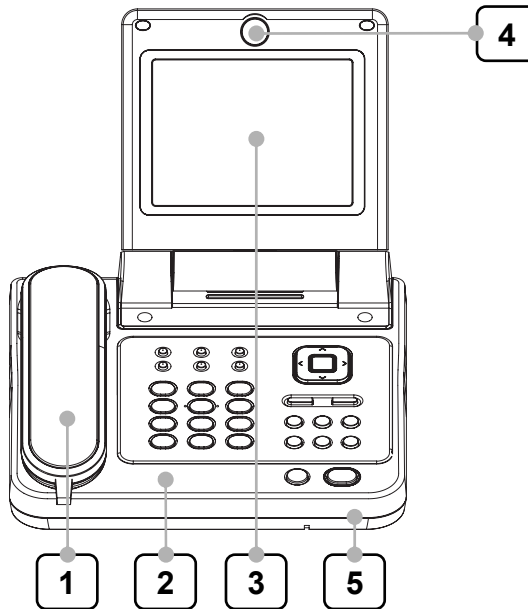
1	Handset	4	CCD Camera
2	Power Light	5	Speakerphone Microphone
3	TFT Color LCD		

Product Features

Front Features (WVP-2100S)

Introduction
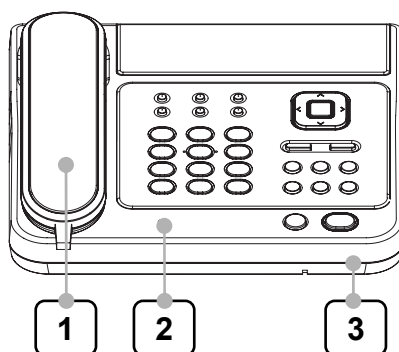
1	Handset
2	Power Light
3	Speakerphone Microphone

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Introduction

Product Features

Rear Features
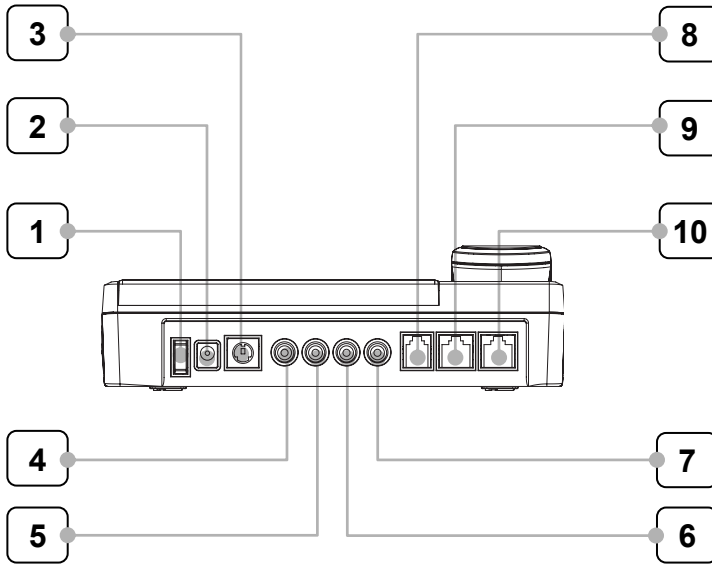
1	Power Switch	**6**	External Video Output
2	Power Connector	**7**	External Video Input
3	RS-232C Serial Port	**8**	Phone (PSTN) Port
4	External Audio Output	**9**	LAN Port
5	External Audio Input	**10**	PC Port

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Product Features

Keypad

1	**Function Keys**	**2**	**Dial pad**	**3**	**Function Keys**

1 **Function Keys**

▶ Self-View

▶ Record/Stop

▶ Play/Stop

▶ Function 1, 2, 3

2 **Dial pad**

3 **Function Keys**

▶ Speed-dial

▶ Video Privacy / Audio Mute

▶ Redial

▶ PSTN

▶ Flash

4 **Volume**

5 **OK and Navigation**

6 **Send**

7 **Speakerphone**

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WOOKSUNG

Introduction

Product Features

Unpacking your videophone

Before initial use: Please read the IMPORTANT SAFETY INSTRUCTIONS before use. The following accessories are included with your phone. Carefully unpack your system and check the supplied accessories with this list. If something is missing, please contact your dealer.
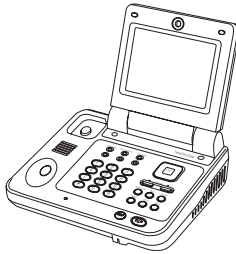
① Main Unit
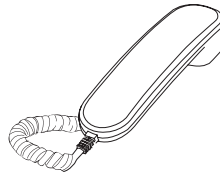
② Handset
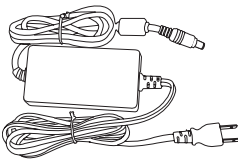
③ Power Adaptor (AC 110~220V)
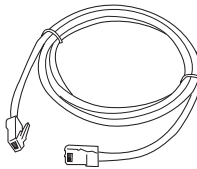
④ LAN Cable (Straight type)

⑤ User's Manual

20

Introduction
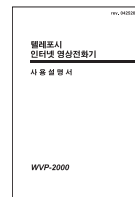
Connecting your Videophone

Basic Connections

1 Connect the handset to the port located on the side of the videophone.
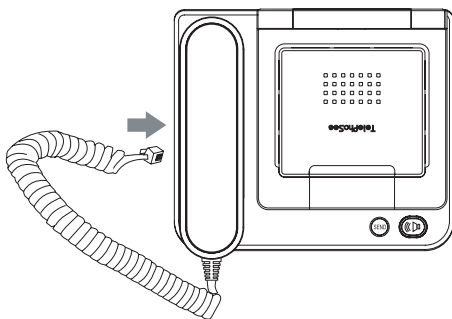
2 Connect the videophone to your Internet port through the LAN port on the back of the videophone.

- Use the LAN cable supplied by your Internet service provider

3 Connect the power adaptor to the POWER port. Connect the power.
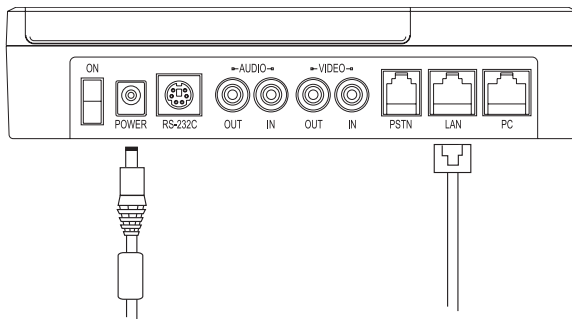
Power Adaptor   **LAN Cable**

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WOOKSUNG

Introduction

Connecting your Videophone

Basic Connections

4. Turn the Power Switch to ON. Wait for the chime notifying that the system has successfully booted up. The LED will light up.

Lights up

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Introduction
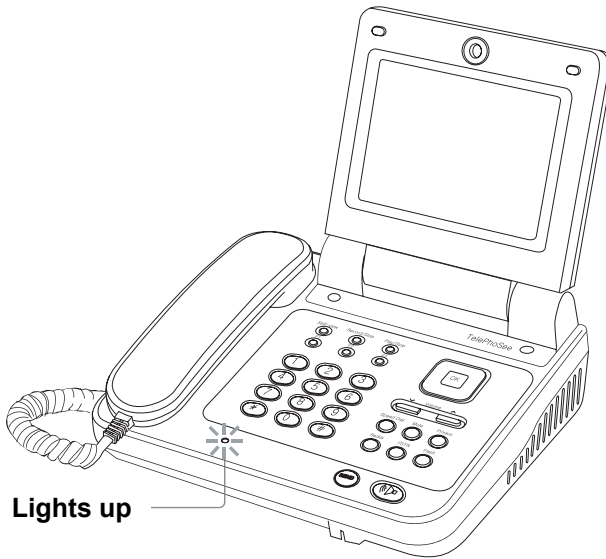
Connecting your Videophone

Connecting other devices

ON
POWER RS-232C ►AUDIO◄ OUT IN ►VIDEO◄ OUT IN PSTN LAN PC

Computer

Power

Internet

VISCA cable*

**PSTN phone
(to use your existing
phone line)**

TV

**External
Camera**

Mic   **Speaker**

*for optional camera control

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WOOKSUNG
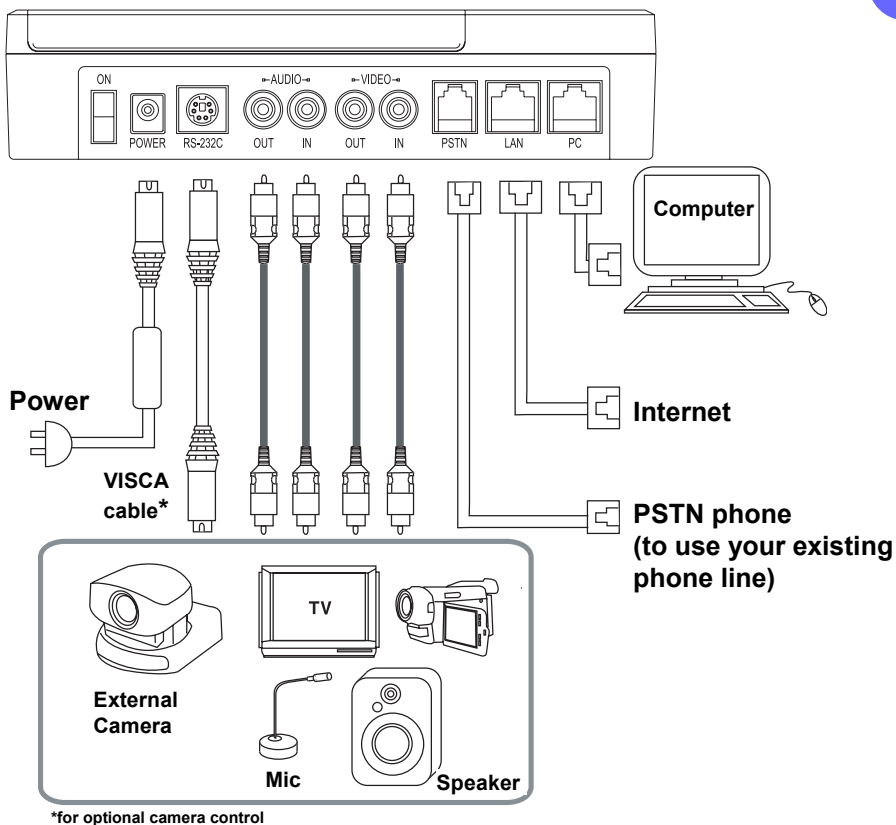
Basic Use

Entering Data into Your Phone

You can enter numerical or text data into your videophone by using the onscreen keyboard or the key pad.

Entering data using the touch screen

1 Tap the screen to highlight the field where you want to enter text.

2 Onscreen Multilanguage Keyboard

If 🕑 appears in the field, tap 🕑 and the onscreen keyboard will appear. Tap the characters to enter.

3 If 🔵 🔵 appears on the screen, tap 🔵 🔵 to make your selection.

Note
You can use the ⊛key to enter the dot [.] in IP addresses

WOOKSUNG

Basic Use

Entering Data into Your Phone

Introduction

Entering data without the touch screen

1 Use the ∧ ∨ ⟨ ⟩ buttons to highlight the field you want to enter text.

2 If 🖉 appears, press the OK button and the onscreen keyboard will appear. Use the ∧ ∨ ⟨ ⟩ buttons and OK button to highlight the characters and enter them.
 - You can also use the keypad to enter numbers without the keyboard, using the ⟨ button to delete. Use the ✳ button to enter the dot [.]in IP addresses.

3 If 🔵 🔵 appears on the screen, use the ⟨ ⟩ buttons to make your selection.

The Onscreen Multilanguage Keyboard

Choose the language type of the keyboard from the icons in the lower right corner of the screen. You can also press the ✳ button for SHIFT, and the ✳ button for BACKSPACE.

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WOOKSUNG

Introduction

Basic Use

Accessing the Menu / Screensaver Mode

Accessing the Main Menu

1. Pressing any navigation button ∧ ∨ ‹ › when the handset is on the hook will take you to the Main Menu. In the menu use the ∧ ∨ ‹ › buttons and the OK button to navigate the menu.

2. If the videophone has a touch screen you can also access the Main Menu by tapping the touch screen twice when in Screensaver Mode (Tap once to bring up the Logo Screen, and twice to go to the Main Menu). Tap the menu icons to navigate the menu.
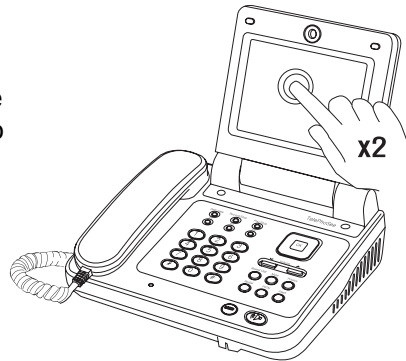
Screensaver Mode
The screen will automatically turn off after a certain amount of inactivity. The screen will power down after 30 sec. in the Logo Screen, and after 20 min. when in the menus.

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Basic Setup

Before Starting Network Setup

Please read this section carefully. There are a couple of things that YOU MUST KNOW in order to setup your phone properly.

1. How you are connected to the Internet. (Identifying your Network Environment)

① **ADSL** - ADSL stands for Asymmetric Digital Subscriber Line. It's a type of DSL, where you connect to the Internet through an ADSL modem (NOT your common dialup modem) connected to your common phone line. You MUST be using a EXTERNAL PPPoE ADSL modem.

② **DHCP** - If you are connected through cable TV, this is what you're using. You are connected to the Internet through a cable modem (NOT your common dialup modem) connected to your TV cable. DHCP stands for Dynamic Host Configuration Protocol.

③ **Fixed IP** - This is commonly called LAN (Local Area Network). If all you have is a jack in the wall or a long cable slinking up to your desk and no modem (ADSL, cable, or dialup) in sight, this is probably what you have.

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WOOKSUNG

Before Starting Network Setup

2. How to connect to your network. (Network Settings)

① **ADSL** - You must know your ID and password.

If your ADSL provider has provided you with a fixed IP address you must configure your videophone to 'Fixed IP (you must know your IP address, netmask address, and your gateway address).

② **DHCP** - You don't need to know anything else.

③ **Fixed IP** - Your IP address, subnet mask address, gateway address, and a DNS server address.

3. What software version (H.323 or SIP) you are using

Your videophone supports both H.323 and SIP communication protocols. However both software cannot be used simultaneously. You must know what software version your videophone is currently using.

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Network Connections

for ADSL

ADSL Modem | Videophone

Phone | LAN | PSTN | LAN | PC

LAN Cable

(Supplied with the ADSL modem)

for Cable Modem (DHCP)

Cable Modem | Videophone

Cable | LAN | PSTN | LAN | PC

LAN Cable

(Supplied with the cable modem)

Basic Setup

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WOOKSUNG
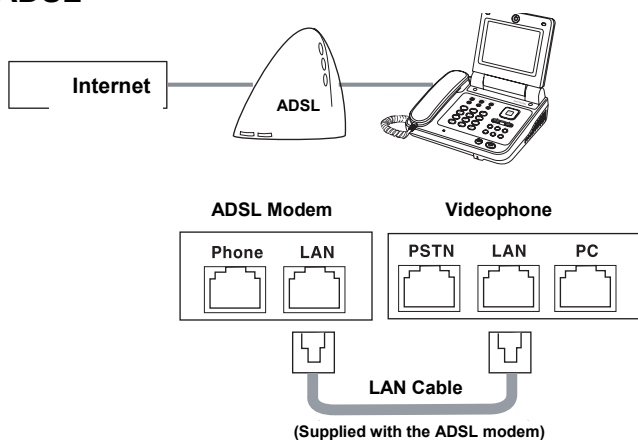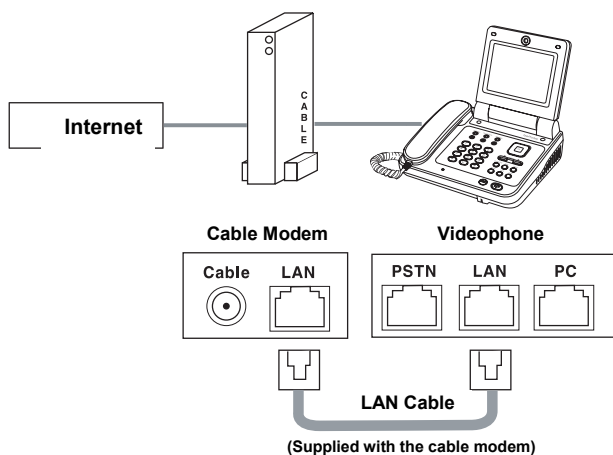
Network Connections

for LAN

Basic Setup

Internet

H U B
Uplink — Downlink

Hub   Videophone

Uplink — Downlink   PSTN   LAN   PC

Computer

LAN Cable

(Supplied with the videophone)

LAN

LAN Cable

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WOOKSUNG
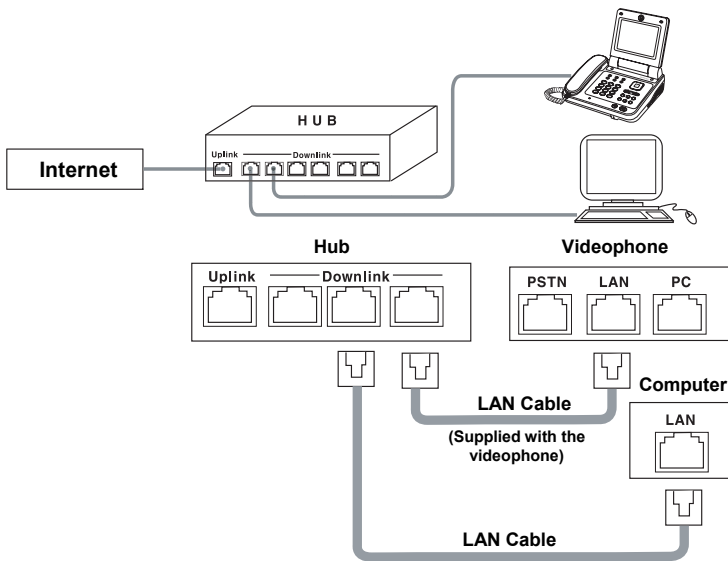
H.323 Network Setup

for ADSL (dynamic IP type)

Connect the Videophone

1 Check that the network cable from the ADSL modem is connected to the LAN port on the videophone.
- Use the cable provided with the modem.

2 Set the videophone network settings.

Videophone Network Setup

1 Press ∧ ∨ ⟨ ⟩ or tap the touch screen to display the Main Menu.

2 On the Main Menu screen, select CONFIGURATION then select NETWORK then NETWORK TYPE to go to the Network Type Menu.

Basic Setup
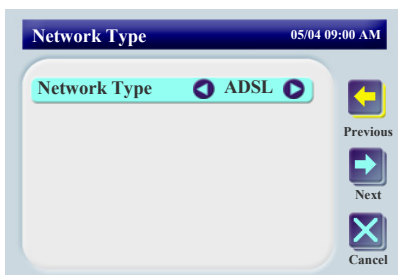
3 On the Network Type Menu select ADSL as your network type. Select NEXT.

4 Enter your ADSL user name and password. Select NEXT.
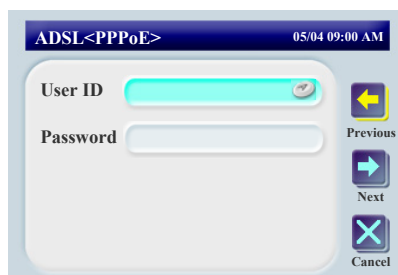
ADSL<PPPoE>	05/04 09:00 AM
User ID	
Password	
	Previous
	Next
	Cancel

5 In the Gatekeeper Menu select NO USE if you are not subscribed to a Gatekeeper service. Select NEXT to review your network settings, and select APPLY to confirm.

Network Type	05/04 09:00 AM
Network Type ◀ ADSL ▶	
	Previous
	Next
	Cancel

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WOOKSUNG

H.323 Network Setup

for ADSL (fixed IP type)

Connect the Videophone

1 Check that the network cable from the ADSL modem is connected to the

LAN port on the videophone.

- Use the cable provided with the modem.

2 Set the videophone network settings.

Videophone Network Setup

1 Press ∧ ∨ ⟨ ⟩or tap the touch screen to display the Main Menu.

2 On the Main Menu screen, select CONFIGURATION then select NETWORK then NETWORK TYPE to go to the Network Type Menu.

Network Type	05/04 09:00 AM
Network Type ◀Fixed IP▶	

Previous
Next
Cancel

3 On the Network Type Menu select ADSL as your network type. Select NEXT.

4 Enter your IP address, subnet mask address and gateway address. Select NEXT.

Fixed IP	05/04 09:00 AM
IP Addr 211.30.78.55	
Netmask 255.255.255.0	
Gateway 211.30.78.1	

Previous
Next
Cancel

5 In the Gatekeeper Menu select NO USE if you are not subscribed to a Gatekeeper service. Select NEXT to review your network settings, and select APPLY to confirm.

WOOKSUNG

H.323 Network Setup

for Cable Modem (DHCP)

Connect the Videophone

1 Check that the network cable from the cable modem is connected to the LAN port on the videophone.
- Use the cable provided with the modem.

2 Set the videophone network settings.

Basic Setup

Videophone Network Setup

1 Press ∧ ∨ 〈 〉 or tap the touch screen to display the Main Menu.

2 On the Main Menu screen, select CONFIGURATION then select NETWORK then NETWORK TYPE to go to the Network Type Menu.

3 On the Network Type Menu select DHCP as your network type. Select NEXT.

4 In the Gatekeeper Menu select NO USE if you are not subscribed to a Gatekeeper service. Select NEXT to review your network settings, and select APPLY to confirm.

Network Type	05/04 09:00 AM
Network Type ◀ DHCP ▶	← Previous → Next ✕ Cancel

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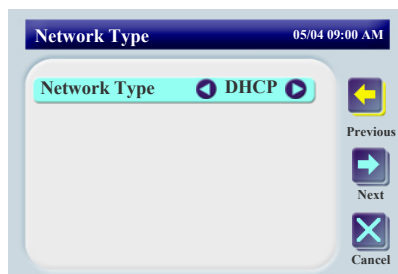
H.323 Network Setup

for LAN (public IP type)

Basic Setup

Connect the Videophone

1 Check that the network cable from the network hub DOWNLINK port is connected to the LAN port on the videophone.

2 Set the videophone network settings.

Videophone Network Setup

1 Press ∧ ∨ ⟨ ⟩ or tap the touch screen to display the Main Menu.

2 On the Main Menu screen, select CONFIGURATION then select NETWORK then NETWORK TYPE to go to the Network Type Menu.

3 On the Network Type Menu select FIXED IP as your network type. Select NEXT.

Fixed IP	05/04 09:00 AM
IP Addr	211.30.78.55
Netmask	255.255.255.0
Gateway	211.30.78.1

Previous / Next / Cancel
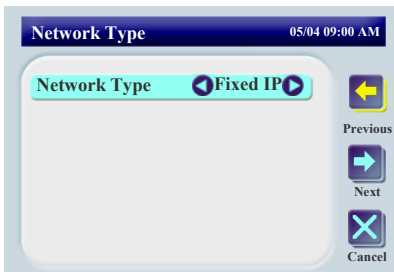
4 Enter your IP address, subnet mask address and gateway address. Select NEXT.

5 In the Gatekeeper Menu select NO USE if you are not subscribed to a Gatekeeper service. Select NEXT to review your network settings, and select APPLY to confirm.

Network Type	05/04 09:00 AM
Network Type	�◯ Fixed IP ◯▶

Previous / Next / Cancel

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H.323 Network Setup

Gatekeeper Setup

A Gatekeeper is a name server that frees you from the burden of having to enter long Internet addresses. (In the case of ADSL and DHCP, your address changes every time you use the service, making it extremely difficult to make calls this way.) Instead, the Gatekeeper gives an ID (also called an 'Alias' or 'IPN') to your phone. All you have to do is connect your phone and you can receive calls made to your Alias wherever you are. However, to receive gatekeeper service you must subscribe to a separate service. Please contact your dealer for more information.

1 Go to the Gatekeeper Menu through the Network Type setup or through the GATEKEEPER icon on the Network Menu.

2 If you are using a Gatekeeper select USE. Otherwise select NO USE.

3 Select NEXT to configure your Gatekeeper.
Enter the IP address of your Gatekeeper, your Alias (user ID). You can also optionally enter an E.164 number.

Gatekeeper		05/04 09:00 AM
IP Addr	211.30.78.55	← Previous
User ID	TelePhoSee	
E.164 No.	54546879	→ Next
		✕ Cancel

4 Select NEXT to review your network settings.

5 Select APPLY to confirm.

Basic Setup

SIP Network Setup

Basic Network Setup

The basic network setup for SIP connections is similar to H.323 setup. You must know what type of network you are using first. Refer to Before Starting Network Setup (P.27) to see what network you are using.

**Settings by network type
(Configuration-Network-Network Type)**

1 Press ∧ ∨ 〈 〉 or use the touch screen to access the Main Menu.

2 Enter the Network Type menu by selecting CONFIGURATION-NETWORK-NETWORK TYPE.
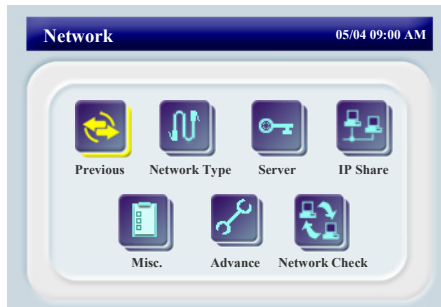
SIP Network Setup

Basic Network Setup

3 Select your network type from Fixed IP, ADSL, and DHCP.

4 Select NEXT to enter the network settings.

Selected Network type	Settings
Fixed IP	Use the keypad to enter the IP, netmask, gateway, and DNS server addresses.
ADSL	Enter your ADSL ID and password.
DHCP	No further settings are necessary.

5 Select NEXT to enter the Server setup menu.

WOOKSUNG
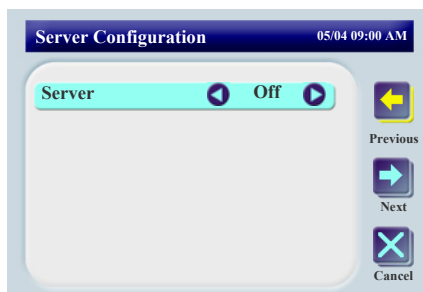
SIP Network Setup

Server Setup (Configuration ▶ Network ▶ Server)

About the SIP Proxy server

The SIP Proxy server is used to allocate a simple ID to your videophone so that even if your IP address changes, such is the case with ADSL and DHCP, others will be able to contact you through your ID. SIP proxy server services are a separate service which you must subscribe to use.

SIP Network Setup

Server Setup (Configuration ▶ Network ▶ Server)

1 Display the ServerConfiguration menu through the NETWORK TYPE setup sequence or by selecting the SERVER icon on the Network menu.

2 Select ON to configure the server. Select NEXT.
Select OFF if you are not subscribed to a SIP service.

3 Enter the SIP server IP address, Server Port, your User ID, Password, and Expire Time (Expires).

4 Select NEXT to review your settings.

5 Select APPLY to apply your server settings.

Basic Setup

```
ServerConfiguration                05/04 09:00 AM

  Network Type: Fixed IP
     IP Addr  : 10.1.2.5
     NetMask: 255.255.255.0
     Gateway : 10.1.1.1              Previous
     DNS       : 202.30.143.11
  Server Configuration: Use
     Server Addr: proxy.com
     Port: 5060                        Apply
     User: user1@proxy.com
     Password: password               Cancel
```

Notes: Expired Time

This is the amount of time Proxy server registration is valid, after which the videophone automatically renews registration. Default is 3600 seconds, but the time recommended by the Proxy server is usually set.

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WOOKSUNG

SIP Network Setup

Advanced Setup

Advanced Setup menu can be accessed through (Configuration ▶ Network ▶ Advance). You can setup DTMF type, FIR protocol, and Audio PacketTime. Please attempt to change the menu settings only if you are a professional user.

DTMF (Inband, RFC2833)
This defines the type of DTMF tone sent when the keypad is pressed. 'Inband' will send the actual DTMF tone, while RFC2833 is an outband protocol which sends the information about which button was pressed.

FIR (RTCP, RTP, Info)
FIR(Fast Intra-frame Request) setting sets the default protocol when requesting a full frame of video is the case the video breaks up during calls.

Audio PacketTime (20ms, 30ms)
Audio PacketTime sets the sending time of the Audio RTP packet.

Basic Setup
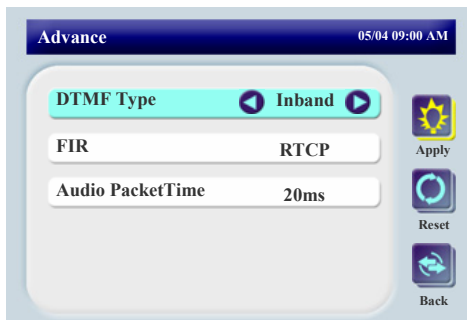
IP Sharing

Connections

The IP sharing feature enables TelePhoSee to share an IP with another computer, or other network equipment. This means that you can connect your computer to your TelePhoSee and surf the Internet through it without needing another IP address assigned to you. This can be particularly helpful where Internet access is limited, such as in the home.

Connections for sharing an IP between your videophone and a computer

1 Using the LAN cable supplied with your videophone, connect the PC port located on the back of the videophone with the computer LAN port.

2 Set the videophone IP Sharing settings and the computer network settings accordingly. (Refer to P.41~43)

Basic Setup

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WOOKSUNG
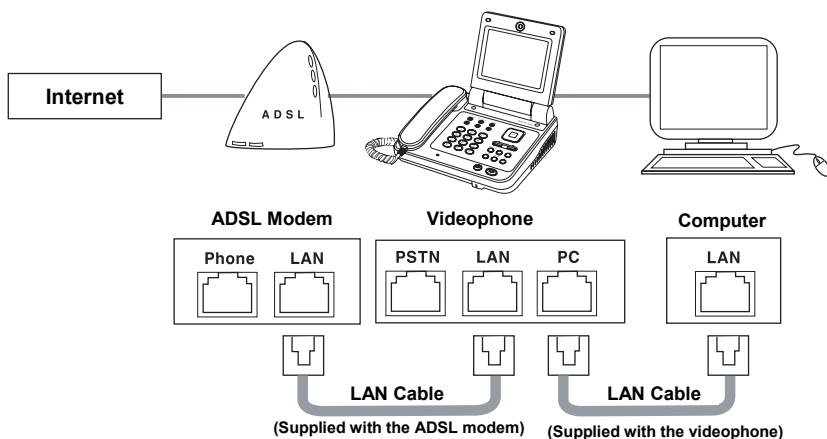
IP Sharing

Connections

Connections for sharing an IP between your videophone and more than one computer

1 Using the LAN cable supplied with your videophone, connect the PC port located on the back of the videophone with the network hub UPLINK port.

2 Connect the hub DOWNLINK ports with the computers LAN ports.

3 Set the videophone IP Sharing settings and the computer network settings accordingly. (Refer to P.41~43)

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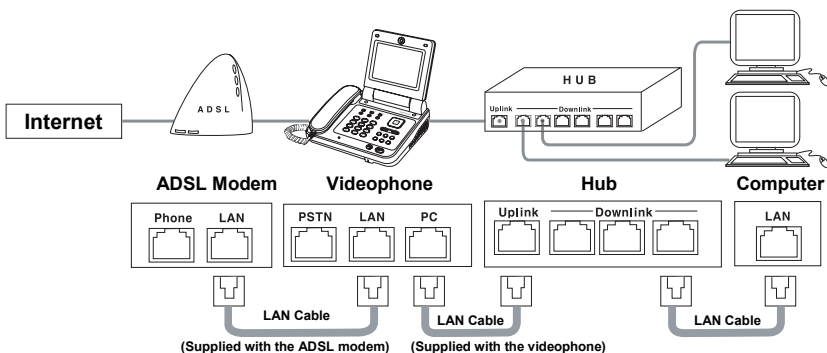
IP Sharing

Videophone Setup

1 Go to the IP Share Menu through the IP SHARE icon on the Network Menu.

2 Set the IP Sharing category to USE if you want to use the IP sharing feature.
- Set to NO USE if you are not using IP sharing, and want to use your videophone as a basic dummy hub.

3 Set the Gateway setting.
- The default factory setting is192.168.2.1

- If you are using more than one TelePhoSee unit with IP Sharing enabled in your network, set the gateway setting in each phone to 192.168.2.1, 192.168.3.1, 192.168.4.1, 192.168.5.1….. respectively.

4 Set the Netmask setting.
- The default factory setting is 255.255.255.0.
Unless you know your network very well, we suggest that you do not change this setting.

5 Select APPLY to apply your settings.

Basic Setup

IP Share	05/04 09:00 AM
IP Share	◀ Use ▶
Gateway	192.168.2.1
Netmask	255.255.255.0

Apply
Reset
Back

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WOOKSUNG

IP Sharing

Computer Setup (refer to appendix for more details)

Basic Setup

1 Go to the network settings in your computer, or other network equipment connected to your phone. Select 'TCP/IP' and click 'Properties'.
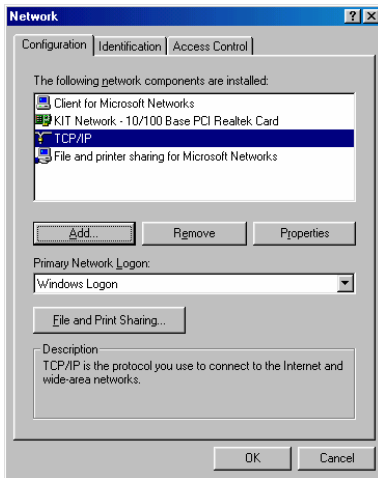
2 Set the Gateway address to that of the connected phone as designated in the IP SHARING menu.

44
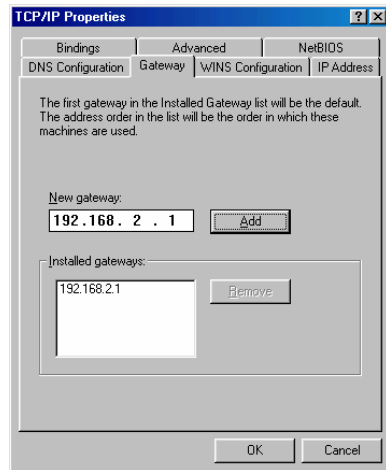
IP Sharing

Computer Setup (refer to appendix for more details)

3 Set the IP address.

- When the Gateway address is set to 192.168.2.1, you can set the connected computers' IP addresses to 192.168.2.2 ~ 192.168.2.254. Do not use the same address for any two equipment. Likewise, if the Gateway address is set to 192.168.x.1, set the connected computers' IP addresses to 192.168.x.2 ~ 192.168.x.254.

4 Set the DNS address

- You must set the appropriate DNS address in order to log on to Internet sites properly. Contact your Internet service provider for your DNS address.

Basic Setup

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WOOKSUNG
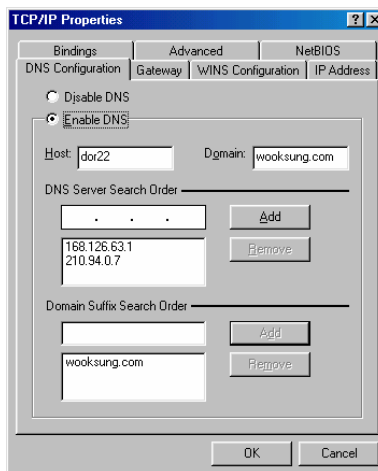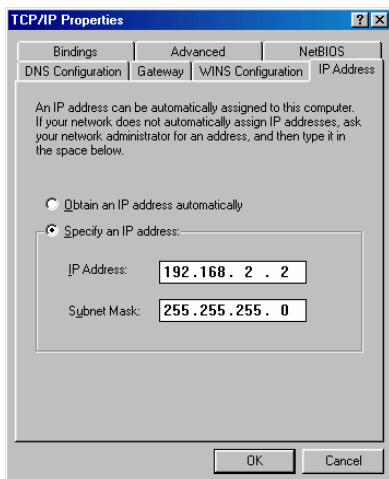
Checking the Network Setup

Configuration ▶ Network ▶ Network Check

After setting up the network you can confirm that your phone is correctly connected by using Network Check.

1 Select the NETWORK CHECK icon on the Network Menu.

2 CONNECTION IS OK will appear if the connection is valid. If not, the screen will read CONNECTION IS BROKEN.

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Making Calls

Making calls over the Internet

Making calls with TelePhoSee is as simple as calling with your old-fashioned telephone. The only difference is that you have to press the SEND button after dialing.

1 Lift the handset or press the SPEAKERPHONE button.

2 Select whether you want to make a VIDEO CALL (Default) or a SPEECH CALL (Audio-only) by highlighting the icons.

- Calling to an audio-only phone in VIDEO CALL mode will show only your Self-View on the display. Calling to a videophone in SPEECH CALL mode will only enable audio communication.

3 Dial an IP address, IPN, or telephone number.
- Use the ✱ button to enter the dot [.] in IP addresses.

4 Press the SEND button.
- The videophone will now dial.

5 When finished talking, replace the handset or press the SPEAKERPHONE button.

Call   05/04 09:00 AM

Voice Call

Video Call
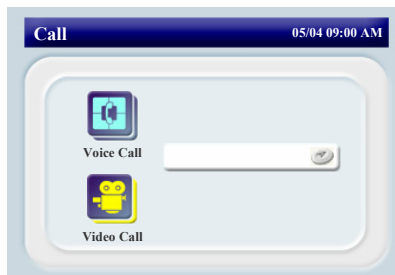
Notes

You can switch from the handset to the speakerphone at anytime by pressing the SPEAKERPHONE button. When using the speakerphone you can replace the handset. You can also switch to the handset from the speakerphone at anytime by lifting the handset.)

You can use the MUTE button and the PRIVACY button to block your outgoing audio and video before making a call.

Basic Use

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Making calls

<table>
<tr>
<td>

Making calls over the telephone line (PSTN)

Your videophone also has a connection for your old telephone line.

1 Lift the handset or press the SPEAKERPHONE button.

2 Press the PSTN button.

3 Dial the telephone number.

4 When finished, hang up or press the SPEAKERPHONE button again.

Notes

Pressing the PSTN button before lifting the handset or pressing the SPEAKERPHONE button will enable PSTN calling in speakerphone mode.

</td>
<td>

Using the REDIAL button

Instant Redialing
1 Lift the handset or press the SPEAKERPHONE button.

2 Press the REDIAL button.
- The most recently dialed number will automatically redial.

Sent Calls History
1 Press the REDIAL button in the logo screen or in screensaver mode.
- The Sent Calls History menu will appear.

2 Select the number you wish to redial.

3 Press the SEND button.

</td>
</tr>
</table>

Basic Use

WOOKSUNG

Receiving Calls

1 When the videophone bell rings, lift the handset or press the SPEAKERPHONE button.

2 When finished, replace the handset or press the SPEAKERPHONE button again.

Notes

You can use the MUTE button and the PRIVACY button to block your outgoing audio and video before receiving a call.

Adjust the screen angle to prevent glare and severe backlight conditions.

Receiving calls during calls
If an Internet call is received during a PSTN call the PSTN button light will blink. Pressing the PSTN button ends the PSTN call and receives the Internet call.

If a PSTN call is received during an Internet call, the PSTN button will also flash. However, pressing the button will put the Internet call on hold while receiving the PSTN call. Pressing it again resumes the Internet call.

Basic Use

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WOOKSUNG
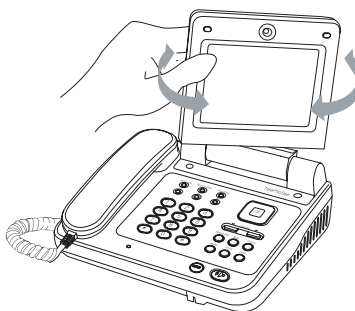
Other Functions

Using the SELF-VIEW button

Pressing the SELF-VIEW button when you are not in conversation displays the self camera image, allowing you to check your own image and enabling you to compose yourself in front of the camera before making a call. During conversation the SELF-VIEW button is used to move your self-image

Moving your self-image during a call

You can change the position of your self-image or remove it by repeatedly pressing the SELF-VIEW button during a call. Each time you press the SELF-VIEW button, the image moves to a new position in a clockwise direction, disappearing once every cycle.

You can also move the self-image by touching one of the four corners of the screen. The self-image will move to the corresponding area. Touching the self-image again will remove it.

50
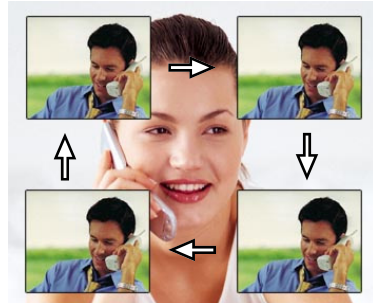
Other Functions

Using the SELF-VIEW button

Adjusting your image using the OSD (On-Screen Display)

Use the OSD (the bar that appears on the bottom of the screen) to adjust the self-image before you make a call. You can adjust the brightness, contrast, hue, saturation of the camera image. The changes you make here affect only the outgoing video.

1 Press the SELF-VIEW button in the logo screen or in screensaver mode.

2 Press ∨ to display the OSD.

3 Press ∧ ∨ to select Brightness, Contrast, Hue, Saturation, Default Setting, OK, and Cancel. Press ⟨ ⟩ to adjust the setting.

4 Select Default Setting if you want to reset to factory settings, OK to apply the settings, or Cancel to cancel all changes.

5 Press the OK button.

Brightness
Contrast
Hue
Saturation
Default setting
OK
Cancel

Basic Use

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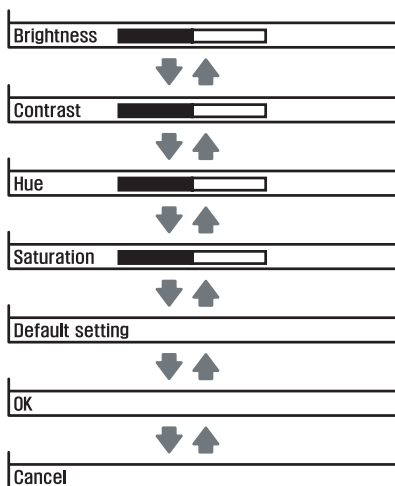
Other Functions

Using the VOLUME / MUTE / PRIVACY buttons

Using the VOLUME buttons

Press the VOLUME buttons to adjust the volume of the handset
earpiece and speakerphone (including the keypad sound effects).
Ending a conversation resets the volume settings to the main volume
set in the Bell Menu. (CONFIGURATION-BELL)

Using the PRIVACY button

Press the PRIVACY button to black out your outgoing video.
PRIVACY will deactivate when you end your conversation. Press
PRIVACY again during a call to deactivate. PRIVACY can also be
enabled BEFORE answering or making a call.

Using the MUTE button

Press the MUTE button to mute your outgoing voice. Like PRIVACY,
MUTE will deactivate when you end your conversation. PSTN calls
do not support MUTE. Press MUTE again during a call to deactivate.
MUTE can also be enabled BEFORE answering or making a call.

Basic Use

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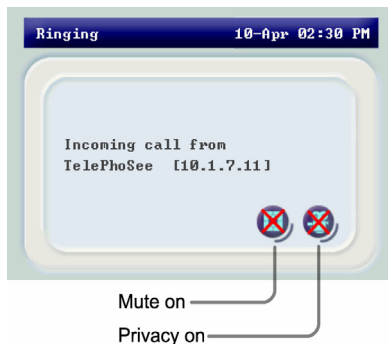
Using the Phonebook

Accessing the Phonebook

Your videophone provides up to 300 entries (and 9 numbers per entry) for you to store most frequently used numbers so you can dial them more easily. Access the PHONEBOOK from the Main Menu, or by pressing SPEED-DIAL whenever the phone is on the hook.

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Advanced Use

Using the Phonebook

Registering numbers in the Phonebook

1 In the Phonebook Menu select the ADD icon.

2 Allocate a quick dial number (from 0 to 9999) to the phone number.

3 Enter the name of your contact.

4 Enter the IP address, IPN, or telephone number of your contact.

5 Enter up to 9 numbers per name using ❭ . The speed dial number refers to the first number only.

6 Set the call type
Select between VIDEO, SPEECH, or PSTN.

7 Set the bell type
You can allocate a number its own bell chime, so you can hear if it is a personal, business or emergency phone call.

8 Select SAVE to save the entry and return to the Phonebook Menu, or BACK to cancel.

Phonebook		05/04 09:00 AM
S.Dial	0	
Name	John	Save
Phone No. 1)	213.85.77.45	
CallType	Video	Back
Bell	Bell 1	

Using the Phonebook

Calling from the Phonebook

1 Highlight the entry you wish to dial by scrolling (∧ ∨) through the list or using the touch screen.

2 Choose the number you wish to dial by pressing 1 through 9 on the key pad.
Remember, you can store up to 9 numbers per entry.

3 Select the CALL icon or press the SEND button. The high-lighted phone number is automatically dialed.

Phonebook	05/04 09:00 AM
[0000] John **(1) 213.85.77.45**	Call
[0001] James **(1) 3447895**	Add
[0002] Paul **(1) 108.73.46.112**	View
	Find
	Delete
	Back

Searching entries

1 Select the FIND icon.

2 In the Item field select between Speed Dial, Phone Number, and Name.

3 In the Text field enter your search string.

4 Select FIND.
Your search results are sorted by relevance, the most relevant one is highlighted for you.

Modifying entries

1 Highlight the entry you wish to modify.

2 Select VIEW to modify, and DELETE to delete the entry.

Advanced Use

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Using the SPEED DIAL button

Your videophone provides a Speed Dial feature for you to allocate frequently used numbers so that you can dial them easily. A Speed Dial number is allocated when you register a number in the Phonebook.

Calling with Speed Dial

1 Lift the handset, press the SPEAKERPHONE button or press the PSTN button.

2 Press the SPEED DIAL button.

3 Enter the Speed Dial number you wish to dial.

4 Press the SEND button.

Notes
Pressing the SPEED DIAL button when the hook is down displays the Phonebook.

Using Call History

Your videophone will also store the last 300 sent and received numbers, respectively, with the date and time the call was made/received. The latest number dialed or received is at the top of the list. You can select the number that you wish to dial from the list and make a phone call easily and quickly without having re-enter the number.

Calling with Call History

1 Press the Menu button to display Main menu and select CALL HISTORY.

2 Select either SENT CALLS or RECEIVED CALLS.

3 Highlight the number you with to dial by scrolling through the list ($\wedge$ $\vee$) or using the touch screen.

4 Select the CALL icon or press the SEND button.
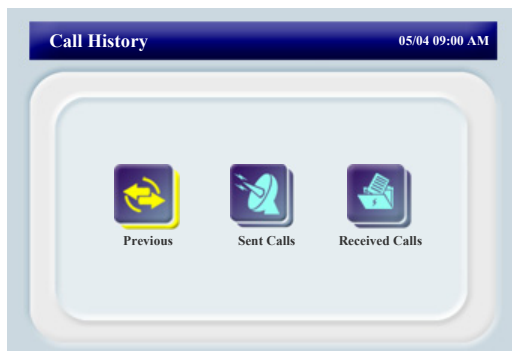
Notes

An icon indicating whether the call was a video call or a speech call is also shown.

You can also SAVE the number into the Phonebook. Select DELETE to erase a number, or CLEAR to erase the entire list.

Advanced Use

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WOOKSUNG

Using Auto Answering

The WVP-2100W has a built-in video/audio answering machine allowing you to record video/audio greeting messages for automatic playback when you are unable to receive calls.

Recording your greeting message

1 With the phone on the hook, press the RECORD/STOP button to start recording.
The speakerphone is initially enabled, but you can lift the handset to record your voice through it. Replacing the handset will not stop the recording.

2 Press the RECORD/STOP button again to stop recording.
Your videophone will store the message into memory and playback the message for you to review.

Playing your greeting message

You can review your greeting message again by enabling Auto Answering. (Refer Enabling/disabling Auto Answering.)

Using Auto Answering

Enabling / Disabling Auto Answering

1 Press the PLAY/STOP button or select the AUTO ANSWERING icon in the Main Menu to enable Auto Answering.
You will see the amount of left memory and then a playback of your OGM. The LED will flash indicating that Auto Answering is enabled.

2 Lift the handset or press the SPEAKERPHONE button to disable Auto Answering. The LED will stop flashing.

Notes
Your videophone will record up to approx. 2 minutes of messages (128kbps calls)

Advanced Use

WOOKSUNG

Using Auto Answering

Playing your recorded messages

1 When Auto Answering is enabled, press the PLAY/STOP button or select the RECORDS LIST icon in the Main Menu.

2 Highlight the record you wish to playback by scrolling through the list (∧ ∨) or using the touch screen.

3 Select the PLAY icon.
Select DELETE to erase the recording, or CLEAR to erase the entire list.

Advanced Use

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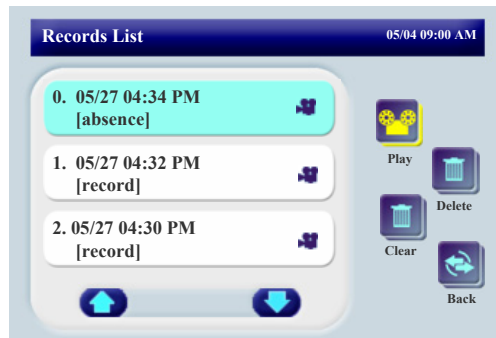
Recording a Call

You can record your contact's video/audio during conversation into the phone memory for later playback.

Recording the Call

1 During a call, press the RECORD/STOP button on the base unit to start recording. 'Record' in red will appear on the OSD.
You can record only once per call. A total of approx. 2 minutes of video/audio recording is possible (128kbps).

2 Press the RECORD/STOP button again to stop recording.

I◀·ıll 192k 00:00:17   Rec   🎙 📹 10:52 AM

WOOKSUNG

Recording a Call

Playing back the recorded call

1 RECORDS LIST icon in the Main Menu.

2 Highlight the record you wish to playback by scrolling through the list (∧ ∨) or using the touch screen.

3 Select the PLAY icon or press the PLAY/STOP button.
Select DELETE to erase the recording, or CLEAR to erase the entire list.
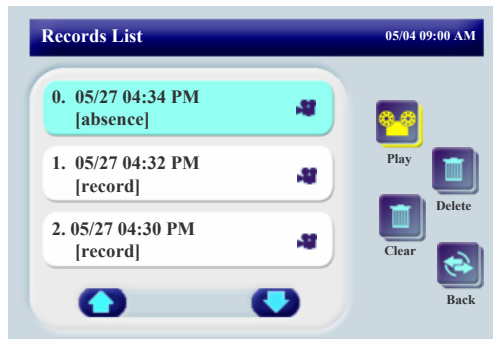
Using the Photo Room

You can use the built-in camera as a digital camera to easily take photos and send them to your computer.

Taking a photo

1 Press the SELF-VIEW button to show your camera image on the screen.

2 Press the RECORD/STOP button to freeze the image.
If you do not want to save the still image press the button again to unfreeze the image.

3 While the image is frozen press the PLAY/STOP button to save the image.

Advanced Use

Using the Photo Room

Viewing photos

1 Select PHOTO ROOM in the Main Menu.

2 Select the photo you want to see from the list and select VIEW.

3 Press any other button to return to the Photo Room.
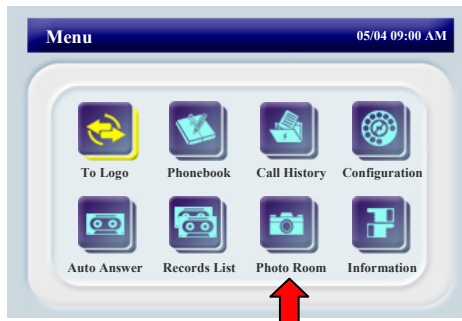
Using the Photo Room

Labeling photos

1 In the Photo Room select the photo you want to label from the list.

2 Select LABEL.

3 Label your photo using the onscreen keyboard and select OK.

Advanced Use

Using the Photo Room

Deleting photos

1 In the Photo Room select the photo you want to delete from the list.

2 Select DELETE.

Advanced Use
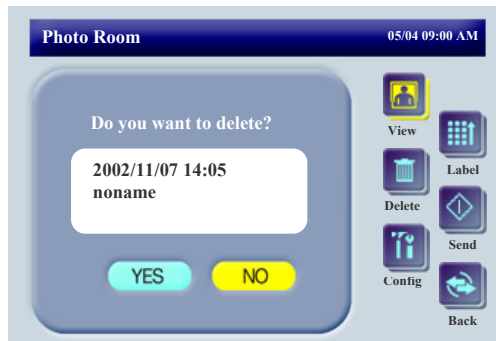
WOOKSUNG

Using the Photo Room

Transferring photos to your computer

To upload your pictures onto your computer you need to download a separate computer program.

Downloading the program onto your PC

1 Using your Internet browser log on to www.wooksung.com.

2 Download the photo program onto your computer from Support.

Transferring photos

1 In the Photo Room select CONFIG and enter the IP address of your computer.

2 Execute the downloaded photo program on your computer.

3 Select the photo you want to send and select SEND.

Configuration	05/04 09:00 AM
Server	213.85.77.62

Apply
Reset
Back

Advanced Use

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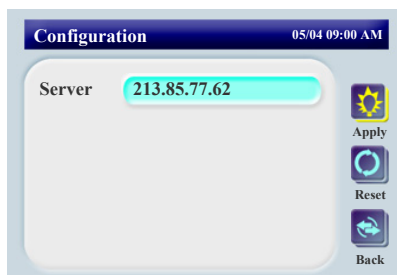
Monitoring

You can monitor your home through your videophone remotely while you are away using the monitoring feature. Also, you can set a password to prevent unauthorized persons from monitoring your home.

Setting monitoring

1 Go to the Monitoring Menu through the MONITORING icon on the Configuration Menu.

2 Set Monitoring to ON to enable monitoring.

3 Set a 4-digit password (RECOMMENDED)
If you do not set the password any person calling will be able to monitor through your videophone.

4 Set a ring time
The Ring Time is the time your videophone will ring before automatically receiving the incoming call.

5 Select APPLY to save your settings.
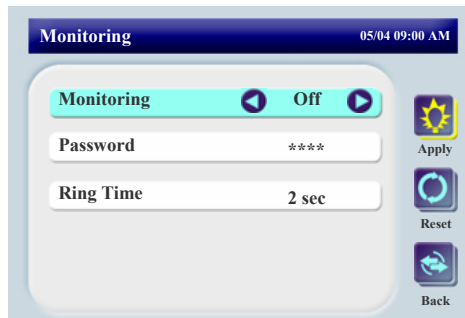
Monitoring

Using Monitoring

1 Call your monitoring enabled phone.

2 Your phone will answer the call after one ring.
If a password is set, your phone will block the video and mute the audio,
and you will not be able to monitor the area.

3 Enter the 4-digit password to start monitoring.

4 Hang up the phone to end monitoring.

External Camera Control

You can control local external cameras (the external camera connected to your phone) and remote external cameras (the external camera connected to your contacts phone) through your videophone during a call. With compatible pan/tilt cameras, you can control pan/tilt cameras connected to videophone. Currently only the Sony EVI-D30 model and Canon VC-C4 model are controllable.

Connecting an external camera

1 Connect the video cable.
Connect the output port of the external camera with the video input port of the videophone with a RCA video cable (sold separately).

2 Connect the camera control cable.
Connect the VISCA input port of the external camera with the RS-232C port of the videophone.

3 Connect the external camera power.

External Camera Control

Remote camera control

You can control your contact's (remote) external camera during a call.

1 Switching between internal and external cameras

Press the ✱ button to toggle between your contact's internal and external cameras. If the camera is controllable, a yellow ◁▷ will be displayed in the right end of the OSD.

2 Remote camera control

The remote external camera can be only controlled when the yellow ◁▷ is displayed on the OSD. Use the keypad to control the camera. If the keypad is pressed repeatedly the camera will move faster.

Zoom in/out

Tilt

Zero point

Pan

Toggle internal/external camera

Advanced Use

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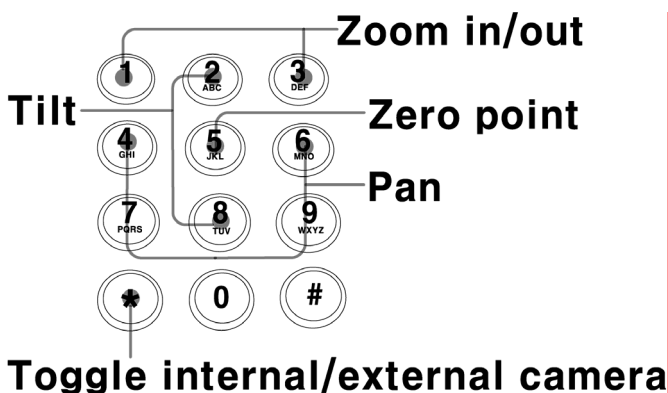
External Camera Control

Local camera control

You can control your own (local) external camera during a call.
Press ⟩ twice and press 4 on your keypad to enter EXT. CAMERA
CONTROL mode. You must be in EXT. CAMERA CONTROL mode
to control your camera.

1. Switching between internal and external cameras
Press the (#) button to toggle between your internal and external
cameras. If the camera is controllable, a yellow camera ▯◁ will be
displayed in the right end of the OSD. A blue camera ▮◁ is display
if the external camera is not controllable.

2. Local camera control
The remote external camera can be only controlled when the yellow
camera ▯◁ is displayed on the OSD. Use the keypad to control the
camera. If the keypad is pressed repeatedly the camera will move
faster.

Zoom in/out

Tilt/Pan

Zero point

Toggle internal/external camera

WOOKSUNG
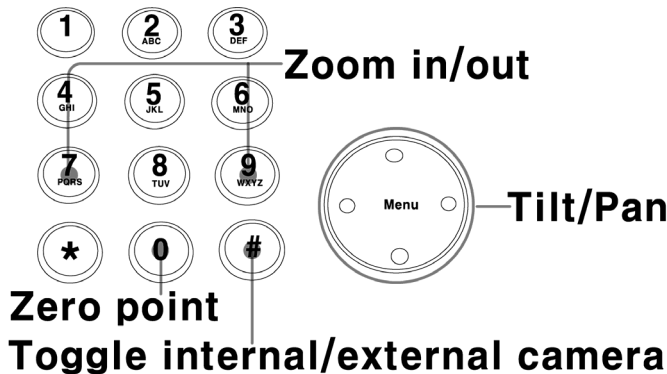
Sending a Quality Still Image

H.261 Annex D

Recommendation H.261 Annex D Graphic Transfer mode reads and interleaves four decoded pictures to resulting in a higher resolution graphic picture. This is a particularly useful feature when you want to send an image of a document, an action that normally requires higher resolution for easier recognition .

H.261 video codec with CIF resolution must be enabled on both calling and receiving phones. (Refer to Codecs)

Sending your still image

1 Press the **F1** button during a video conversation to send a still image. The OSD will display STILL IMAGE TRANSFERING. When sending is complete the screen will display your contact's video again.

2 Your contact's videophone OSD will display STILL IMAGE RECEIVING. When receiving is complete your contact's videophone will display the still image. Your contact can press the **F3** button to return to video.

Receiving your contact's still image

1 Press **F2** to receive your contact's still image. The OSD will display STILL IMAGE RECEIVING. When receiving is complete your contact's still image will be displayed. You can press the **F3** button to return to video.

2 Your contact's videophone OSD will display STILL IMAGE TRANSFERING. When receiving is complete your contact's display will return to video.

Advanced Use

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WOOKSUNG

Using the OSD During a Call

The OSD is the bar that appears on the bottom of your screen showing the current state of your phone. The OSD can also be used to adjust your outgoing image and to set the maximum bandwidth of your phone. Press the OK button or touch the center of the screen to display the OSD.

1 Use ∧ ∨ and the numbers on the keypad to select the function you want to adjust.

1. Camera Adjust
Adjust the Camera settings. Press ∧ ∨ to select the options and press ⟨⟩ to adjust the setting.
To exit, select Default Setting to reset to factory settings, OK to apply the new settings, or Cancel to cancel all changes. Then press the OK button.

Brightness
Contrast
Hue
Saturation
Default setting
OK
Cancel
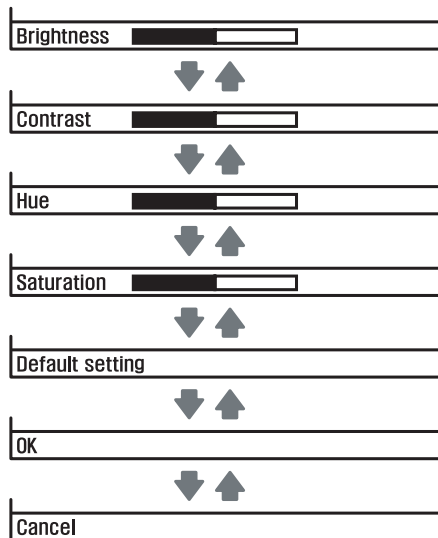
Using the OSD during a call

2. Camera Input
Press 1 to select the internal camera or 2 for the external camera.

| 1: Int. Camera | 2: Ext. Camera | Enter:Exit |

3. Maximum Bandwidth
Press ⟨ ⟩ and the according number on the keypad to set the bandwidth.

| 1: 64kbps 2: 128kbps 3: 192kbps Enter:Exit》 |

| 《 1: 256kbps 2: 384kbps 3: 512kbps Enter:Exit》 |

| 《 1: 768kbps   Enter:Exit 》 |

4. External Camera Control
Selecting the External Camera Control option sets the phone to either:
- External Camera Control Mode (pan/tilt/zoom control)
- Monitoring Mode (Closed circuit camera selection)
depending on the type of camera connected.

| Ext. Camera Control | (To Exit:Enter Button) |

| Monitoring | (To Exit:Enter Button) |

2 Press the OK button to exit.

Serial Communication

You can use the serial jack (RS-232C) on the back of the videophone for data communication to external devices. Currently digital stethoscopes and headphones for use during tele-medicine sessions are applied. Future applications including blood pressure and glucose diagnostic equipment are also in development.

1 Connect the device's serial adapter to the serial jack located on the back of the phone.
IMPORTANT: ONLY USE SERIAL CABLES APPROVED BY WOOKSUNG ELEC.

2 Go to the SERIAL COM. menu from the MAIN MENU by selecting CONFIGURATION – NETWORK – SERIAL COM.

3 Select the USE field and set to SENDER for a transmitting device (ex: stethoscopes) and RECEIVER for a receiving device (ex: headphones).

Serial Comm		05/04 09:00 AM
Use	◀ NoUse ▶	Apply
Speed	9600	
DataBit	8	Reset
Parity	None	
StopBit	2	Back
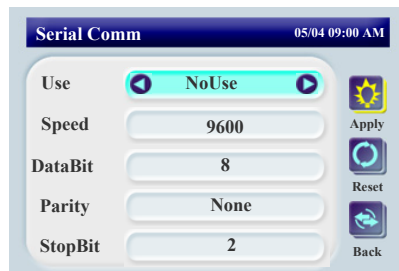
4 Set the other settings according to the serial device.
Example: for digital stethoscopes and headphones
SPEED: 9600, DATABIT: 8, PARITY: NONE, STOPBIT: 2

5 Select APPLY.
Serial communication will start when your call is connected.

Advanced Use

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Serial Communication

Notes

If you are not using serial communication, set the serial communication setting to NO USE. If the setting is set to USE, external camera control may not operate properly.

WOOKSUNG

Other Network Configurations

(Configuration-Network-Misc.)

User ID

The User ID is the Caller ID that appears on your contact's phone. If you have subscribed to a Gatekeeper service your User ID is the same as the User ID in the Gatekeeper Menu. Changing your User ID will thus affect the User ID in the Gatekeeper Menu (and vise versa).

Max Bandwidth

(64kbps, 128kbps, 192kbps, <u>256kbps</u>, 384kbps, 512kbps, 768kbps) Setting this value to the bandwidth of your Internet line will result in the best quality video. However setting the bandwidth to a higher or lower value than that of your Internet line will result in a degradation of video quality. In the case of ADSL set to the uploading bandwidth.

Misc.		05/04 09:00 AM
User ID	TelePhoSee	
Max BW	192kbps	Apply
Call FWD	None	
Dest.Addr		
NA Int.	10 sec	Back

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Advanced Setup

Other Network Configurations

(Configuration-Network-Misc.)

Call Forwarding

TelePhoSee has a call forwarding feature that forwards your calls to an alternate number when you are unable to receive your call

Type	When
None	No forwarding
No Answer	Forwards your calls if you don't answer the phone for a set time (No Answer Interval)
Busy	Forwards when you are engaged in conversation
Unconditional	Unconditionally forwards your calls

Forwarding number

Set the number to forward to in the DEST.ADDR field.

No Answer Interval

(10sec, 20sec 30sec)
Set the No Answer
Interval in the NA INT.

Advanced Setup
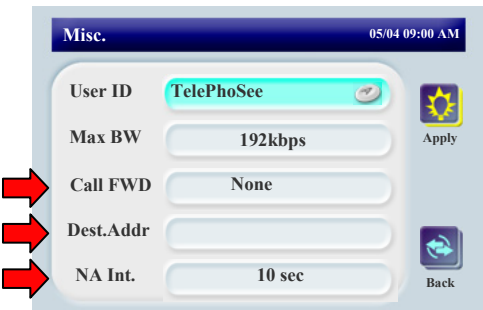
Codecs

(Configuration-Codecs)

Codec stands for compressor/decompressor; a codec is a technology standard for compressing and decompressing data. Video/audio quality depends on what kind of codec you use. Here not only can you set the default video/audio codecs, you can also set the video resolution, and video quality.

Video Codec

(H.263, H.261)

This is where you set your default video codec. Your videophone supports two types of video codec: H.263 and H.261. Even if your contact is not using the same codec, your phone will automatically adjust to enable video calls. H.263 has a higher degree of compression efficiency than H.261.

Resolution

(CIF, QCIF)

CIF (352×288) and QCIF (176×144).
CIF displays a more detailed (higher resolution) image than QCIF. However, QCIF can enable a maximum frame rate of 30fps, displaying a more dynamic but less detailed picture. CIF is the recommended setting, unless you need a particularly fast frame rate.

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Advanced Setup
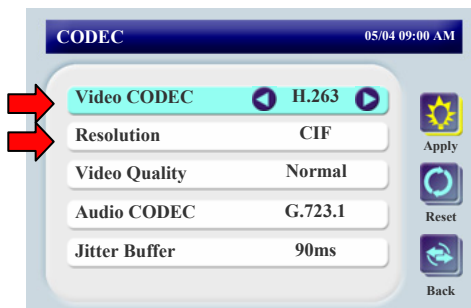
Codecs

(Configuration-Codecs)

Video Quality

(Maximum Speed, Fast Speed, <u>Normal</u>, Good Image, Best Image)
This controls the quality of the video. A faster speed gives smoother movement but can result in loss of detail. A slower speed gives a clearer image but slow movement.

Audio Codec

(<u>G.723.1</u>, G.711-A, G.711-µ)
This is where you set your default audio codec. Your videophone sup ports three types of audio codec. Even if your contact is not using the same codec, your phone will automatically adjust to enable calls. You can choose between G.723.1, G.711 A-Law, and G.711 µ-Law.

Not much difference in audio quality is perceived between the codecs so the recommended codec is G.723.1 for its narrower bandwidth.
(6.3 or 5.3Kbps compared to G.711 64Kbps)

Jitter Buffer

This sets the audio buffer for video-audio synchronization.

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Advanced Setup

Display Options

(Configuration-Display)

Here you can set display options such as menu language, showing/hiding date & time, default self-image position, and default OSD view.

Language

(English, Korean, Japanese)
This is where you set your menu language. TelePhoSee presently supports English, Korean and Japanese menus.

Date & Time

(Both, Date, Time, None)
You can display either Date or Time, or both, on the menu screen.

Display		05/04 09:00 AM
Language	◀ English ▶	☀ Apply
Date&Time	Both	
SelfView	Left Top	◯ Reset
OSD View	On	↩ Back

Display Options

(Configuration-Display)

Self View

(<u>Top Left</u>, Top Right, Bottom Right, Bottom Left, None)

This sets the default self-image window position. During a call you can change or hide the self-image by pressing the SELF-VIEW button. (Refer Using the Self-View Button)

OSD View

(<u>On</u>, Off)
You can set the OSD to be shown or hidden as default. During a call you can show/hide the OSD by tapping the screen or pressing the MENU pad.

Selecting ON displays the OSD for 1 min. at the start of the call, after which it is hidden. Tapping the screen or pressing the ENTER button displays the OSD for an additional1 min.

Selecting OFF hides the OSD until the screen is tapped or the ENTER button is pressed, which displays the OSD for 1 min.

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Clock

(Configuration-Clock)

Time server setup

Your videophone uses time servers around the world to automatically set its time. Here you can set the time servers for automatic time and date setting. You can set up to three time servers. (Default factory settings are sufficient)

Set your time zone, and whether you are using Daylight Savings Time

1 Enter the IP address of the time servers in the blanks. (Factory settings are sufficient)

2 Select your time zone.

3 Turn on daylight saving time (DST) when in effect.

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Advanced Setup

STANDARD TIME ZONES

Daylight Saving Time (Summer Time),
usually one hour in advance of Standard
Time, is kept in some places

Standard Time = G.M.T (Greenwich Mean Time) + value from table

	h m		h m		h m		h m		h m
Z	0	E*	+ 5 30	K	+ 10	N	– 1	T	– 7
A	+ 1	F	+ 6	K*	+ 10 30	O	– 2	U	– 8
B	+ 2	F*	+ 6 30	L	+ 11	P	– 3	U*	– 8 30
C	+ 3	G	+ 7	L*	+ 11 30	P*	– 3 30	V	– 9
C*	+ 3 30	H	+ 8	M	+ 12	Q	– 4	V*	– 9 30
D	+ 4	I	+ 9	M*	+ 13	R	– 5	W	– 10
D*	+ 4 30	I*	+ 9 30	M+	+ 14	S	– 6	X	– 11
E	+ 5							Y	– 12

Alarm

You can set the alarm time and alarm bell.

1 Set the alarm setting to ON to enable the alarm.

2 Set the alarm time and type.

3 Select APPLY.

Alarm	05/04 09:00 AM
Alarm	◀ Off ▶
Hour	12
Minute	0
AM/PM	AM
Bell	Bell 1

Apply

Back

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Bell

(Configuration-Bell)

You can set telephone's default main volume, bell volume and bell melody as you like.

Main Volume (0 ∼ 5)
Controls the volume of the handset, speakerphone (including the keypad sound effects). During conversation, use the VOLUME buttons to adjust the main volume directly. Ending the conversation resets the volume settings to the volume set in the 'Bell Menu'.

Bell Volume
You can adjust the bell volume to any of three levels.

Bell
This is the default bell melody for numbers not stored in the Phonebook.

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Advanced Setup

A/V Input & Output

(Configuration-A/V In&Out)

You can configure audio/video input & output settings.

Video Input (Int, Ext)

This defines the source of the outgoing video. The factory default is set to INT (Internal camera), but you can connect an external camera or other video source to the Video IN jack and set to Ext.

Video Output (NTSC, PAL)

You can show the display on an external display (NTSC or PAL) by connecting an external display (such as a TV monitor) to the Video OUT jack

Audio Input (Int, Ext)

You can connect an external microphone to the Audio In port of the videophone and set the Audio Input setting to Ext.

Audio Output (Int, Ext)

You can connect an external speaker to the Audio Out port of the videophone and set the Audio Output setting to Ext. The videophone must be in speakerphone mode.

Ext. Camera

Select the camera model you are using for external camera control.

A/V In&Out		05/04 09:00 AM
Video In	◀ Int ▶	
Video Out	NTSC	Apply
Audio In	Int	
Audio Out	Int	Reset
Ext. Camera	EVI-D30	Back

Notes
NTSC is short for National Television Standards Committee. The NTSC is responsible for setting television and video standards in the United States. PAL is short for Phase Alternating Line, the dominant television standard in Europe.

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Signaling

(Configuration-Network-Signaling)

The Signaling menu is used for setting advanced gatekeeper server settings. Users should contact their gatekeeper service provider before attempting to change the default settings.

Fast Start

This feature is used to open audio and video in advance for immediate connection when calling and receiving. When using services such as "Color Ring" (service of music bell instead of ringing tone while waiting for connection), this feature must be turned on. However, this feature should be supported by the VOIP (Internet Phone) service provider.

Tunneling

When this feature is enabled the currently used signaling channel is used instead of opening a new media channel.

GRQ

This feature allows to check whether a gatekeeper is providing service. In the case gatekeeper does not support GRQ(Gatekeeper Request) function, enabling the GRQ feature disables gatekeeper registration.

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Advanced Setup
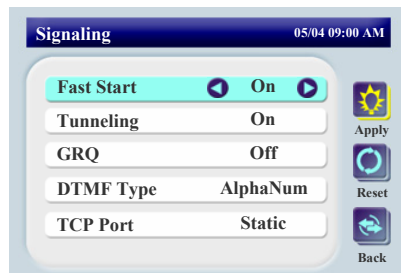
Signaling

DTMF Type

DTMF type refers to the method of delivering dial tone. DTMF(Dual Tone Multi Frequency) includes of inband and outband features. Inband type consists of Alpha Numeric and Signal types. Outband feature is the type that transmits DTMF tones.

TCP Port

This feature allows choosing between Static and Dynamic TCP port type when transmitting signals. Some gatekeeper maintain connection only with dynamic TCP port. In most cases, TCP port is set to static.

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Advanced Setup

Precautions

Power Adaptor

The power adaptor included with your videophone is a 'Free voltage' adaptor capable of plugging into 110V~240V power outlets. Do not use any power adaptor other than the adaptor included.

Copyright warning

Television programs, pictures and other material may be copyrighted. Unauthorized recording or storing of such materials violates the provision of copyright laws.

Call recording warning

Unauthorized call recording without consent from the other party may result in the violation of privacy laws.

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Advanced Setup

Maintenance

- Clean the screen with a soft cloth. If you use a glass cleaning liquid, do not use any type of cleaner containing an anti-static solution or similar additive as this may scratch the screen's coating.

- Do not rub, touch, or tap the surface of the screen with sharp or abrasive items such as ballpoint pen or screwdriver. This type of contact may result in a scratched display.

- Clean the cabinet, panel and controls with a soft cloth lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent, such as alcohol or benzene.

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Troubleshooting

Symptom	Remedy
The picture does not appear on the screen.	• Check if your contact has disabled his/her video.If you attempt to call an audio-only H.323 phone (VoIP phone), only your self-view will appear on the screen. • Check if you (or your contact) have set the video input to external (pg. 46) and have not connected and operated the external camera properly.
No sound from the handset or the speakerphone.	• Check if the handset is plugged in. (pg. 8) • Check if your contact has muted his/her audio. • Check if your contact has set the audio input to external and have not connected and operated the external microphone properly.
The audio is breaking up.	• This is usually due to the poor state of the network. Lower the bandwidth settings. If video frame rate is too slow resulting in jerky video due to lowering the bandwidth, change the video resolution settings to QCIF or video quality to faster speed.

Appendix

Troubleshooting

Symptom	Remedy
Video freezes frequently during conversation.	• This is also usually due to the poor state of the network. Lower the bandwidth settings. If video frame rate is too slow resulting in jerky video due to lowering the bandwidth, change the video resolution settings to QCIF or video quality to faster speed.
The unit cannot be operated by any means.	• Reboot the system by switching the power off and then on again.
'ADSL not connected' appears.	• Check if your ADSL modem is connected and operating properly. Some modems require a twisted pair cable for proper operation. • Check your ID and password. • Turn off the modem and wait for 5 minutes, turn on the modem and turn on the phone. (Some modems require about 5 minutes to reestablish an internet connection)

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Troubleshooting

Symptom	Remedy
'Gatekeeper registering failed' appears.	• Check 'Network Check' in Configuration-Network. Check your Gatekeeper address, ID, and E.164 settings. • Contact your VoIP service provider.
There is a few seconds delay before system responds after selecting an icon or pressing a button.	This happens when your phone cannot connect to your Gatekeeper and attempts to reconnect. Check your Gatekeeper settings or set to 'No Use'.
I can hear the dial tone but I can't make calls.	Check 'Network Check' in Configuration-Network.
The clock is showing the wrong time.	Apply your clock settings again to recalibrate your time.
I am behind a firewall and I can't make calls.	Try opening the following firewall ports: TCP: 1720, 5050 UDP: 1719, 1024, 5000~5003 Contact your network administrator.

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Troubleshooting

| Symptom	Remedy
I can make IP calls but I can't make PSTN calls.	• Check if your Gatekeeper or SIP server settings are correct. • Check if your videophone has a PSTN option installed.
The screen constantly flickers.	Make sure you are using the correct camera type (NTSC, PAL) for your country.

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APPENDIX

Computer Network Setup Walkthrough for IP Sharing

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Network Setup Walkthrough for IP Sharing

Windows 98 network setup

Appendix

1 From the [Start] menu, select [Settings] and then select [Control Panel].
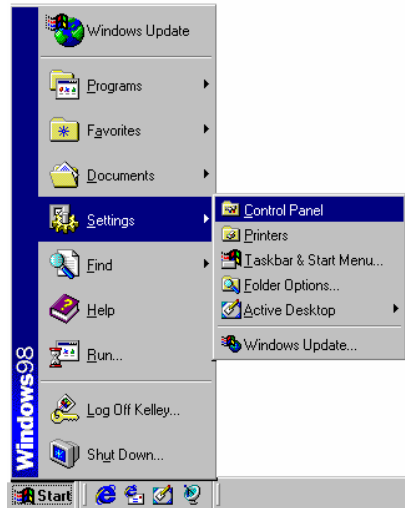
2 Double click [Network].

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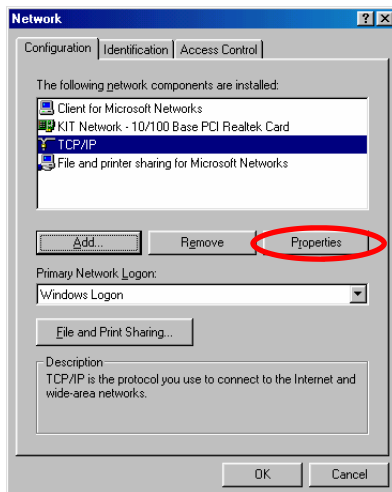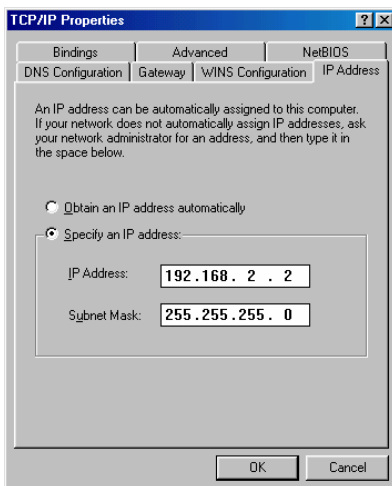
Network Setup Walkthrough for IP Sharing

Windows 98 network setup

3 In the box labeled 'The following network components are installed', select TCP/IP. Click the [Properties] button. If TCP/IP is listed twice, then choose the one followed by the name of your Ethernet card (do not choose TCP/IP Dial-up Adapter).
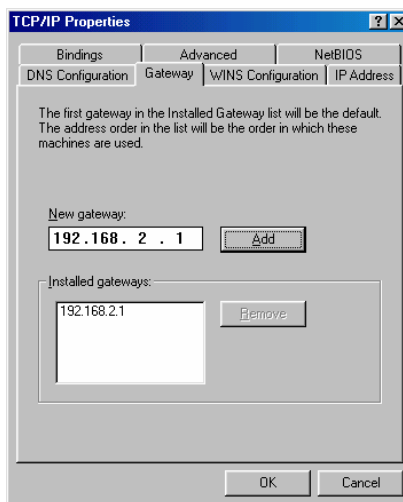

4 In the TCP/IP Properties window, click on the IP Address tab. Make sure that 'Specify an IP address' is selected. Enter the IP Address and Subnet Mask address.

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Network Setup Walkthrough for IP Sharing

Windows 98 network setup

5 Click on the Gateway tab. In the box labeled 'New gateway', enter the Gateway Address. Click the Add button.
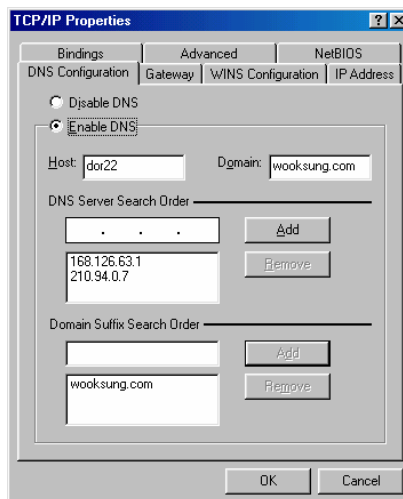

6 Click on the DNS Configuration tab. Select Enable DNS.

If the DNS is already configured then you do not have to change the settings

In the DNS Server Search Order box enter the DNS server for your network and click the Add button. Repeat for other DNS addresses.

Enter an arbitrary Host and Domain information.

7 Click OK several times and reboot.

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Network Setup Walkthrough for IP Sharing

Windows XP network setup

Appendix

1 From the [Start] menu, select [Control Panel].
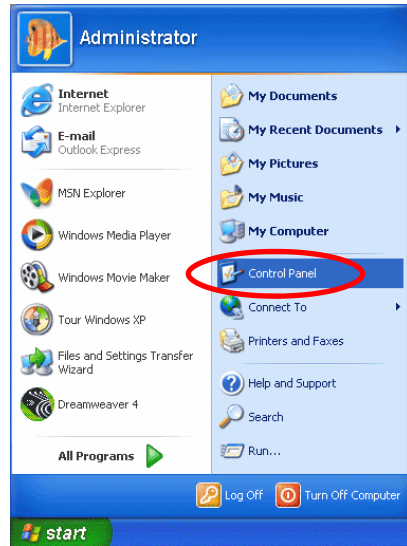
2 Click on Network and Internet Connection.
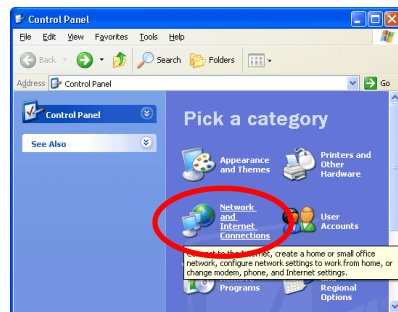
Network Setup Walkthrough for IP Sharing

Windows XP network setup

3 Click on Network Connections.
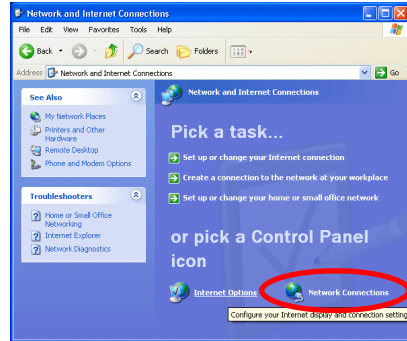
4 Right-click 'Local Area Connection' and select 'Properties'.

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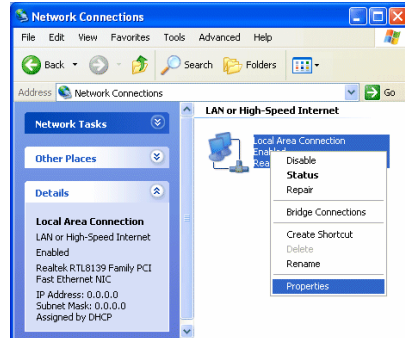
Network Setup Walkthrough for IP Sharing

Windows XP network setup

5 Select TCP/IP. Click the [Properties] button.
If TCP/IP is listed twice, then choose the one followed by the name of your Ethernet card (do not choose TCP/IP Dial-up Adapter).
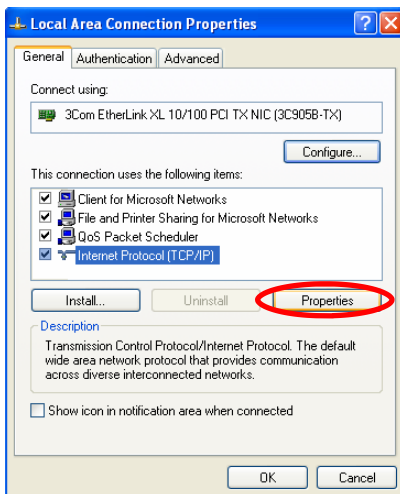
6 Select 'Use the following IP address'. Enter the IP address, Subnet mask address, and Gateway address.
Select 'Use the following DNS server addresses', and enter the DNS address(es).

If the DNS is already configured then you do not have to change the DNS settings.

7 Click OK several times.

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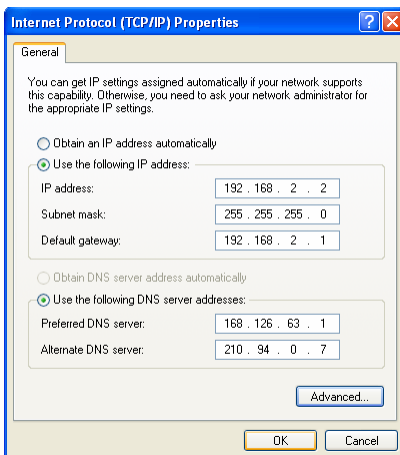
Product Specifications

			WVP-2100	WVP-2100W	WVP-2100S
System	Network	Standard	H.323 or SIP	H.323 or SIP	H.323 or SIP
		Network Speed	10/100 Mbps	10/100 Mbps	10/100 Mbps
	Video	Codec	H.261, H.263, H.264	H.261, H.263, H.264	H.261, H.263, H.264
		Resolution	CIF, QCIF	CIF, QCIF	CIF, QCIF
	Audio	Codec	G.711-A/u, G.723.1	G.711-A/u, G.723.1	G.711-A/u, G.723.1
		Features	Echo Cancellation	Echo Cancellation	Echo Cancellation
			Speaker phone	Speaker phone	Speaker phone
LCD Module (Option)	Display	LCD	4" TFT Color LCD	5" TFT Color LCD	None
	Camera	Image sensor	Color CCD	Color CCD	Color CCD
		Standard	NTSC, PAL	NTSC, PAL	NTSC, PAL
		Resolution	270K Pixel	270K Pixel	270K Pixel
I/O Interface		Video IN/OUT	RCA type	RCA type	RCA type
		Audio IN/OUT	RCA type	RCA type	RCA type
		Serial	1 Port	1 Port	1 Port
Touch Screen			None	Yes	None
IP sharing			Yes	Yes	Yes
Power		AC Input	AC 100 ~ 240V	AC 100 ~ 240V	AC 100 ~ 240V
		Power type	SMPS Adapter	SMPS Adapter	SMPS Adapter
		Input frequency	50 ~ 60 Hz	50 ~ 60 Hz	50 ~ 60 Hz
		DC Output	DC 12V (1.5A)	DC 12V (1.5A)	DC 12V (1.5A)

The Camera specification of the WVP−2100S relates to the external camera module.

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WOOKSUNG One (1) Year Limited Warranty
U.S., Canada and Europe

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WOOKSUNG's warranty obligations are limited to the terms set forth below: WOOKSUNG Electronics, Inc. ("WOOKSUNG") warrants this hardware product against defects in materials and workmanship for a period of ONE (1) YEAR from the date of original retail purchase. If a defect exists, at its option WOOKSUNG will (1) repair the product at no charge, using new or refurbished replacement parts, (2) exchange the product with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product, or (3) refund the purchase price of the product. A replacement product/part assumes the remaining warranty of the original product or ninety (90) days from the date of replacement or repair, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes WOOKSUNG's property. When a refund is given, your product becomes WOOKSUNG's property.

OBTAINING WARRANTY SERVICE

If you purchased the product in the U.S. and Canada, deliver the product, at your expense, to any WOOKSUNG Authorized Service Provider located in U.S. and Canada. If you purchased the product in Europe, deliver the product to any WOOKSUNG Authorized Service Provider in the country where you purchased the product. Be aware, however, that not all countries have WOOKSUNG Authorized Service Providers and not all Authorized Service Providers have all parts or replacement units for the product. If the product cannot be repaired or replaced in the country it is in, it may need to be sent to a different country or directly to WOOKSUNG. To locate an WOOKSUNG Authorized Service Provider refer to the service and support reference materials accompanying the product or visit our web site at http://www.wooksung.com/. When you contact the WOOKSUNG Authorized Service Provider, you will be asked to furnish your name, address, telephone number, and proof of the original purchase (receipt) containing a description of the product(s), purchase date, and the appropriate WOOKSUNG serial number(s).
Note: Before you deliver your product for warranty service it is your responsibility to keep a separate backup copy of the system configuration and user data. You will be responsible for reconfiguring the system and
restoring user data and passwords. Data recovery is not included in the warranty service and WOOKSUNG is not responsible for data that may be lost or damaged during transit or a repair.

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